

GenCore version 5.1.6  
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OM protein - protein search, using bw model  
 Run on: February 16, 2005, 16:27:09 ; Search time 19.1743 Seconds  
 (without alignments)  
 1479.409 Million cell updates/sec

Title: US-10-003-356-5  
 Perfect score: 1986  
 Sequence: 1 LPHSVCTDVCPPGTGRGFQ.....TVSTVLDRLIYMCPLRLQ 380  
 Scoring table: BLOSUM62  
 Gapop 10.0 , Gapext 0.5  
 Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
 Maximum Match 100%  
 Listing first 45 summaries

Database : Issued Patents AA:  
 1: /cgn2\_6/ptodata/1/iaa/5A\_COMB.pep:  
 2: /cgn2\_6/ptodata/1/iaa/5B\_COMB.pep:  
 3: /cgn2\_6/ptodata/1/iaa/6A\_COMB.pep:  
 4: /cgn2\_6/ptodata/1/iaa/6B\_COMB.pep:  
 5: /cgn2\_6/ptodata/1/iaa/PCTUS\_COMB.pep:  
 6: /cgn2\_6/ptodata/1/iaa/backfiles1.pep:  
 \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	796.5	40.1	835	4	US-09-619-353-7 Sequence 7, Appli
2	783.5	39.5	851	4	US-09-619-353-12 Sequence 12, Appli
3	771.5	38.8	856	4	US-09-619-353-8 Sequence 8, Appli
4	760.5	38.3	854	4	US-09-619-353-10 Sequence 10, Appli
5	736.5	37.1	1027	3	US-09-162-021B-2 Sequence 2, Appli
6	736.5	37.1	1027	4	US-10-268-051-8 Sequence 8, Appli
7	722.5	36.4	1059	3	US-09-134-513-2 Sequence 2, Appli
8	714.5	36.0	1079	1	US-08-485-588-8 Sequence 8, Appli
9	714.5	36.0	1079	1	US-08-484-565-8 Sequence 8, Appli
10	714.5	36.0	1079	2	US-08-480-751-8 Sequence 8, Appli
11	714.5	36.0	1079	2	US-08-943-986-8 Sequence 8, Appli
12	714.5	36.0	1079	3	US-08-353-784-8 Sequence 8, Appli
13	714.5	36.0	1079	3	US-08-484-719B-8 Sequence 8, Appli
14	714.5	36.0	1079	3	US-08-484-159-8 Sequence 8, Appli
15	711.5	35.8	1078	1	US-08-485-588-7 Sequence 7, Appli
16	711.5	35.8	1078	1	US-08-484-565-7 Sequence 7, Appli
17	711.5	35.8	1078	2	US-08-480-751-7 Sequence 7, Appli
18	711.5	35.8	1078	2	US-08-943-986-7 Sequence 7, Appli
19	711.5	35.8	1078	3	US-08-353-784-7 Sequence 7, Appli
20	711.5	35.8	1078	3	US-08-484-719B-7 Sequence 7, Appli
21	711.5	35.8	1078	3	US-08-484-159-7 Sequence 6, Appli
22	711.5	35.8	1088	1	US-08-485-588-6 Sequence 6, Appli
23	711.5	35.8	1088	1	US-08-484-565-6 Sequence 6, Appli
24	711.5	35.8	1088	2	US-08-480-751-6 Sequence 6, Appli
25	711.5	35.8	1088	2	US-08-943-986-6 Sequence 6, Appli
26	711.5	35.8	1088	3	US-08-353-784-6 Sequence 6, Appli
27	711.5	35.8	1088	3	US-08-484-719B-6 Sequence 6, Appli

28 711.5 35.8 1088 3 US-08-484-159-6  
 Sequence 6, Appli  
 29 709.5 35.7 1085 1 US-08-485-588-5  
 Sequence 5, Appli  
 30 709.5 35.7 1085 1 US-08-484-565-5  
 Sequence 5, Appli  
 31 709.5 35.7 1085 2 US-08-480-751-5  
 Sequence 5, Appli  
 32 709.5 35.7 1085 2 US-08-943-986-5  
 Sequence 5, Appli  
 33 709.5 35.7 1085 3 US-08-484-784-5  
 Sequence 5, Appli  
 34 709.5 35.7 1085 3 US-08-484-159-5  
 Sequence 5, Appli  
 35 709.5 35.7 1085 2 US-08-687-289A-5  
 Sequence 5, Appli  
 36 605.5 30.5 1058 2 US-09-435-897-5  
 Sequence 5, Appli  
 37 605.5 30.5 1058 4 US-09-435-897-5  
 Sequence 14, Appli  
 38 572.5 28.8 863 4 US-09-619-353-14  
 Sequence 2, Appli  
 39 570 28.7 877 4 US-09-619-353-2  
 Sequence 4, Appli  
 40 484.5 24.4 975 4 US-09-695-481-4  
 Sequence 6, Appli  
 41 475.5 23.9 1219 2 US-08-687-289A-6  
 Sequence 6, Appli  
 42 475.5 23.9 1219 4 US-09-435-897-6  
 Sequence 6, Appli  
 43 414.5 20.9 879 1 US-08-072-574-6  
 Sequence 6, Appli  
 44 414.5 20.9 879 1 US-08-486-270-6  
 Sequence 6, Appli  
 45 414.5 20.9 879 3 US-08-367-264-6  
 Sequence 6, Appli

ALIGNMENTS

RESULT 1  
 US-09-619-353-7  
 ; Sequence 7, Application US/09619353  
 ; Patent No. 6410249  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ngai, John  
 ; APPLICANT: Speca, David J.  
 ; APPLICANT: Lin, David M.  
 ; APPLICANT: Isacoff, Rhud Y.  
 ; APPLICANT: Dittman, Andrew H.  
 ; APPLICANT: Fan, Jinzhong  
 ; TITLE OF INVENTION: Odorant Receptors  
 ; FILE REFERENCE: B99-038-2  
 ; CURRENT APPLICATION NUMBER: US/09/619,353  
 ; CURRENT FILING DATE: 2000-07-19  
 ; PRIOR APPLICATION NUMBER: 60/144,766  
 ; NUMBER OF SEQ ID NOS: 14  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 7  
 ; LENGTH: 835  
 ; TYPE: PRT  
 ; ORGANISM: Carassius auratus  
 ; US-09-619-353-7

Db 796 IFAILASSFGLFCIFAPKCYTILLKPDQNTKKHMMGK 833

## RESULT 2

US-09-619-353-12

; Sequence 12, Application US/09619353

; GENERAL INFORMATION:

; APPLICANT: Ngai, John

; Speca, David J.

; Lin, David M.

; Isacoff, Ehud Y.

; Dittman, Andrew H.

; APPLICANT: Fan, Jinhong

; TITLE OF INVENTION: Odorant Receptors

; FILE REFERENCE: B99-038-2

; CURRENT APPLICATION NUMBER: US/09/619,353

; CURRENT FILING DATE: 2000-07-19

; PRIOR APPLICATION NUMBER: 60/144,766

; PRIOR FILING DATE: 1999-07-20

; NUMBER OF SEQ ID NOS: 14

; SOFTWARE: Patentin Ver. 2.1

; SEQ ID NO 12

; LENGTH: 851

; TYPE: PRT

; ORGANISM: Carassius auratus

US-09-619-353-12

Query Match 39.5%; Score 783.5; DB 4; Length 851;

Best Local Similarity 42.6%; Pred. No. 7.6e-64; Mismatches 124; Indels 1; Gaps 1;

Matches 144; Conservative 69; Mismatches 124; Indels 1; Gaps 1;

Qy 2 PHSVCTDVCPPGTGRGFVQREPICCFDSIPCADGHVSRKPGERECEQCGEDYWSNAQKS 61

Db 513 PVSVCSESCPPGTRKAVQKGRPVCCYDCIPSCGEIINNETDSSCDPFCDEWSNEGDK 572

Qy 62 CVALKEVEYLAYDEALGFTLVILSVFGAFVVLAVTAVYVIRHTPLVNASDWQLGFLIQVS 121

Db 573 CVALKVVEFLSYTEIMGTVLCLCIPSSFFGMLLTAIVSFVFLHKETPIVRANNSELSFLLLFS 632

Qy 122 LIIMLSSMFLIDKPHNWSMCAGQVTALGFSLCLSLGKTSSLFLAYRIS-KSKTQLT 180

Db 633 LSLCFLCSLTFIGRPTEWSCMLRHTAFTVFLCISCLGKTIVLMAFRATLPGSNVMK 692

Qy 181 SMHPLYRKIIVLISVLAEGICCTAYLILEPPMVYKNMESQNTKILGCGNEISIEFLYSMF 240

Db 693 CFGPLQQRFSVVLSSLIQMIICVLWLTISPPFMNLSSYREKILBECNLGSALGFWGVL 752

Qy 241 GIDAFALLLCFLTTFVAROLPDNNYYEGKCIITFGMLLVFFIIMSFVPPVYLSTKGFKOMAVB 300

Db 753 GYTGLLSILCFLAFLRKLPDNFNEAKFTFSMLIFCAVWTFIPAYSSPGKFTVAVQ 812

Qy 301 IFAILASSHGLLGCIFAPKCLLJLPERNTSEIVCGR 338

Db 813 IFAILASSFSLLFCIFAPKCYIILKPERNTKKQIMGK 850

## RESULT 4

US-09-619-353-10

; Sequence 10, Application US/09619353

; Patent No. 6410249

; GENERAL INFORMATION:

; APPLICANT: Ngai, John

; Speca, David J.

; Lin, David M.

; Isacoff, Ehud Y.

; Dittman, Andrew H.

; APPLICANT: Fan, Jinhong

; TITLE OF INVENTION: Odorant Receptors

; FILE REFERENCE: B99-038-2

; CURRENT APPLICATION NUMBER: US/09/619,353

; CURRENT FILING DATE: 2000-07-19

; PRIOR APPLICATION NUMBER: 60/144,766

; PRIOR FILING DATE: 1999-07-20

; NUMBER OF SEQ ID NOS: 14

; SOFTWARE: Patentin Ver. 2.1

; SEQ ID NO 10

; LENGTH: 854

; TYPE: PRT

; ORGANISM: Carassius auratus

US-09-619-353-10

; Sequence 8, Application US/09619353

; GENERAL INFORMATION:

; APPLICANT: Ngai, John

; Speca, David J.

; Lin, David M.

; Isacoff, Ehud Y.

; Dittman, Andrew H.

; APPLICANT: Fan, Jinhong

; TITLE OF INVENTION: Odorant Receptors

; FILE REFERENCE: B99-038-2

; CURRENT APPLICATION NUMBER: US/09/619,353

; CURRENT FILING DATE: 2000-07-19

; SEQ ID NO 8

; LENGTH: 856

; TYPE: PRT

; ORGANISM: Carassius auratus

US-09-619-353-8

; Sequence 8, Application US/09619353

; GENERAL INFORMATION:

; APPLICANT: Ngai, John

; Speca, David J.

; Lin, David M.

; Isacoff, Ehud Y.

; Dittman, Andrew H.

; APPLICANT: Fan, Jinhong

; TITLE OF INVENTION: Odorant Receptors

; FILE REFERENCE: B99-038-2

; CURRENT APPLICATION NUMBER: US/09/619,353

; CURRENT FILING DATE: 2000-07-19

; SEQ ID NO 1

; LENGTH: 854

; TYPE: PRT

; ORGANISM: Carassius auratus

US-09-619-353-1

; Sequence 1, Application US/09619353

; GENERAL INFORMATION:

; APPLICANT: Ngai, John

; Speca, David J.

; Lin, David M.

; Isacoff, Ehud Y.

; Dittman, Andrew H.

; APPLICANT: Fan, Jinhong

; TITLE OF INVENTION: Odorant Receptors

; FILE REFERENCE: B99-038-2

; CURRENT APPLICATION NUMBER: US/09/619,353

; CURRENT FILING DATE: 2000-07-19

; SEQ ID NO 1

; LENGTH: 856

; TYPE: PRT

; ORGANISM: Carassius auratus

US-09-619-353-1

; Sequence 1, Application US/09619353

; GENERAL INFORMATION:

; APPLICANT: Ngai, John

; Speca, David J.

; Lin, David M.

; Isacoff, Ehud Y.

; Dittman, Andrew H.

; APPLICANT: Fan, Jinhong

; TITLE OF INVENTION: Odorant Receptors

; FILE REFERENCE: B99-038-2

; CURRENT APPLICATION NUMBER: US/09/619,353

; CURRENT FILING DATE: 2000-07-19

; SEQ ID NO 1

; LENGTH: 854

; TYPE: PRT

; ORGANISM: Carassius auratus

US-09-619-353-1

; Sequence 1, Application US/09619353

; GENERAL INFORMATION:

; APPLICANT: Ngai, John

; Speca, David J.

; Lin, David M.

; Isacoff, Ehud Y.

; Dittman, Andrew H.

; APPLICANT: Fan, Jinhong

; TITLE OF INVENTION: Odorant Receptors

; FILE REFERENCE: B99-038-2

; CURRENT APPLICATION NUMBER: US/09/619,353

; CURRENT FILING DATE: 2000-07-19

; SEQ ID NO 1

; LENGTH: 856

; TYPE: PRT

; ORGANISM: Carassius auratus

US-09-619-353-1

; Sequence 1, Application US/09619353

; GENERAL INFORMATION:

; APPLICANT: Ngai, John

; Speca, David J.

; Lin, David M.

; Isacoff, Ehud Y.

; Dittman, Andrew H.

; APPLICANT: Fan, Jinhong

; TITLE OF INVENTION: Odorant Receptors

; FILE REFERENCE: B99-038-2

; CURRENT APPLICATION NUMBER: US/09/619,353

; CURRENT FILING DATE: 2000-07-19

; SEQ ID NO 1

; LENGTH: 854

; TYPE: PRT

; ORGANISM: Carassius auratus

US-09-619-353-1

; Sequence 1, Application US/09619353

; GENERAL INFORMATION:

; APPLICANT: Ngai, John

; Speca, David J.

; Lin, David M.

; Isacoff, Ehud Y.

; Dittman, Andrew H.

; APPLICANT: Fan, Jinhong

; TITLE OF INVENTION: Odorant Receptors

; FILE REFERENCE: B99-038-2

; CURRENT APPLICATION NUMBER: US/09/619,353

; CURRENT FILING DATE: 2000-07-19

; SEQ ID NO 1

; LENGTH: 856

571 RCVLKVVTEPLSYTEIMGMVLCIFSFIVGVLITAMYSFLYHKETPIVRANNSELSFLILP 630  
 121 SLLIMLSSMLFDKPHNWSMAGQVTLALGFSLCLSCLLGKTSLSFLAYRISKSKTQLT 180  
 631 SLSLCFLCSLTPIGRPTBLSCLMRHTAFLGITFVLCLISCVLGKTLVLMAPRATLPGSDVM 690

QY 181 S-MHPLYRKIIVLISVLAEGICITAYLILEPPMVYKNEQNTKILGNEISIEFLYSM 239  
 DB 691 KWFGPAQQQRQLSVVSLTLIQVTCVLWLTIISPPPPYMNLSYREKJILBCNNGSALGFWTW 750

QY 240 FGIDAFALLCFLTTFVARQIPDNYYEGKCITFGMLVFFIIWMSFVPPVYLLSTKGKFKMAV 299  
 DB 751 LCYTGLLSSLLCFLVLAFLARKLKDLPDNFNEARFITSMSLIFCAVWLTFIPAYVSSSPGKFTVAV 810

QY 300 BFAIASSHGLLGCIFAPKCLILLRPERNTSEIVCGRVST 341  
 DB 811 BFAIASSFGLLFCIFAPKCYIILKPERNTKKQMMGKSST 852

RESULT 5  
 CURRENT APPLICATION NUMBER: US/09162021B  
 PATENT NO. 6337391  
 GENERAL INFORMATION:  
 APPLICANT: H. William Harris  
 APPLICANT: Edward M. Brown  
 APPLICANT: Steven C. Hebert  
 TITLE OF INVENTION: Polycation-Sensing Receptor in Aquatic  
 TITLE OF INVENTION: Species and Methods of Use Thereof  
 FILE REFERENCE: 2856.1001-007

CURRENT APPLICATION NUMBER: US/09/162,021B  
 CURRENT FILING DATE: 1998-09-28  
 PRIOR APPLICATION NUMBER: PCT/US97/05031  
 PRIOR FILING DATE: 1997-03-27  
 PRIOR APPLICATION NUMBER: 08/622,738  
 PRIOR FILING DATE: 1996-03-27  
 NUMBER OF SEQ ID NOS: 19  
 SOFTWARE: FastSEQ for Windows Version 4.0  
 SEQ ID NO 2  
 LENGTH: 1027  
 TYPE: PRT  
 ORGANISM: squalus acanthias

US-10-268-051-8

Query Match 37.1%; Score 736.5; DB 3; Length 1027;  
 Best Local Similarity 38.7%; Pred. No. 2.2e-59;  
 Matches 148; Conservative 73; Mismatches 134; Indels 27; Gaps 5;

QY 1 LPHSVCTDVCPPGTRGFVOREPICCFDSIIPCADGHVSRKPGGERECEQCGEDYWSNAQKS 60  
 DB 545 VPFSNCSDRCVPGTRKGIIIEGBPTCCFECMACAEGBFSDENDASACTKCPNDFWSNENHT 604

QY 61 ECVLKEVEYLAYDEALGFTLVLSVFGAFLVAVTAVVIRHTEFLYNASDWQLGFLIQV 120  
 DB 605 SCIAREIEYLSWTEPFGTALTTFAVLGLILTSFVLGVFIKFRNTPIVKATNRELSYLLF 664

QY 121 SLLIMLSSMLFDKPHNWSMAGQVTLALGFSLCLSCLLGKTSLSFLAYRISKSKTQLT 180  
 DB 665 SLICCFSSSLIFIGEPRDWTCRILRQPAFGISFVLCSICLVLQVTKNRVLLVFE-AKIPTS-- 721

QY 181 SMHPLYRK-----IIVLISVLAEGICITAYLILEPPMVYKNEQNTKILGNEIS 232  
 DB 722 ----LHRKVVGLNLQFLVFLCILQIVTCIILWLYTAPPSSYRNHELEDEVIFITCDEGGS 777

QY 233 IEFLYSMFGIDAFALLCFLTTFVARQLPDNYYEGKCITFGMLVFFIIWMSFVPPVYLLSTK 292  
 DB 778 IMAIGFLIGYTCLLAICFFAKRSRKLPENFNEAKFTTFSMLIFETVWISFIPAYVSTY 837

QY 293 GKFKMAVEIFAILASSHGLLGCIFAPKCLILLRPERNTSEIVCGRVSTTDNCIQLTSAF 352  
 DB 838 GKFKVSAVEVIAILASSFGLGCIYFNKCYIILFKPCRTNTIEEV-RCSTAHAFKVAAARA 895

RESULT 6  
 CURRENT APPLICATION NUMBER: US/10268051  
 PATENT NO. 6748900  
 GENERAL INFORMATION:  
 APPLICANT: Harris, H. William  
 APPLICANT: Jury, Steven  
 APPLICANT: Russell, David R.  
 APPLICANT: Nearing, Jacqueline A.  
 APPLICANT: Betka, Marlies  
 APPLICANT: Linley, Timothy M.  
 APPLICANT: Brown, Edward M.  
 TITLE OF INVENTION: Methods for Growing and Imprinting Fish Using an Odorant  
 FILE REFERENCE: 2213.2004-001

CURRENT APPLICATION NUMBER: US/10/268,051  
 CURRENT FILING DATE: 2003-01-24  
 PRIOR APPLICATION NUMBER: 60/328,464

PRIOR FILING DATE: 2001-10-11  
 NUMBER OF SEQ ID NOS: 13  
 SOFTWARE: PatentIn version 3.1  
 SEQ ID NO 8  
 LENGTH: 1027  
 TYPE: PRT  
 ORGANISM: Squalus acanthias

US-10-268-051-8

Query Match 37.1%; Score 736.5; DB 4; Length 1027;  
 Best Local Similarity 38.7%; Pred. No. 2.2e-59;  
 Matches 148; Conservative 73; Mismatches 134; Indels 27; Gaps 5;

QY 1 LPHSVCTDVCPPGTRGFVOREPICCFDSIIPCADGHVSRKPGGERECEQCGEDYWSNAQKS 60  
 DB 545 VPFSNCSDRCVPGTRKGIIIEGBPTCCFECMACAEGBFSDENDASACTKCPNDFWSNENHT 604

QY 61 ECVLKEVEYLAYDEALGFTLVLSVFGAFLVAVTAVVIRHTEFLYNASDWQLGFLIQV 120  
 DB 605 SCIAREIEYLSWTEPFGTALTTFAVLGLILTSFVLGVFIKFRNTPIVKATNRELSYLLF 664

QY 121 SLLIMLSSMLFDKPHNWSMAGQVTLALGFSLCLSCLLGKTSLSFLAYRISKSKTQLT 180  
 DB 665 SLICCFSSSLIFIGEPRDWTCRILRQPAFGISFVLCSICLVLQVTKNRVLLVFE-AKIPTS-- 721

QY 181 SMHPLYRK-----IIVLISVLAEGICITAYLILEPPMVYKNEQNTKILGNEIS 232  
 DB 722 ----LHRKVVGLNLQFLVFLCILQIVTCIILWLYTAPPSSYRNHELEDEVIFITCDEGGS 777

QY 233 IEFLYSMFGIDAFALLCFLTTFVARQLPDNYYEGKCITFGMLVFFIIWMSFVPPVYLLSTK 292  
 DB 778 IMAIGFLIGYTCLLAICFFAKRSRKLPENFNEAKFTTFSMLIFETVWISFIPAYVSTY 837

QY 293 GKFKMAVEIFAILASSHGLLGCIFAPKCLILLRPERNTSEIVCGRVSTTDNCIQLTSAF 352  
 DB 838 GKFKVSAVEVIAILASSFGLGCIYFNKCYIILFKPCRTNTIEEV-RCSTAHAFKVAAARA 895

RESULT 7  
 CURRENT APPLICATION NUMBER: US/09134513  
 PATENT NO. 6210964  
 GENERAL INFORMATION:  
 APPLICANT: Brown, Edward M.  
 APPLICANT: Diaz, Ruben  
 APPLICANT: Bai, Mei  
 APPLICANT: Quinn, Stephen J.

QY 233 IEFLYSMFGIDAFALLCFLTTFVARQLPDNYYEGKCITFGMLVFFIIWMSFVPPVYLLSTK 292  
 DB 778 IMAIGFLIGYTCLLAICFFAKRSRKLPENFNEAKFTTFSMLIFETVWISFIPAYVSTY 837

QY 293 GKFKMAVEIFAILASSHGLLGCIFAPKCLILLRPERNTSEIVCGRVSTTDNCIQLTSAF 352  
 DB 838 GKFKVSAVEVIAILASSFGLGCIYFNKCYIILFKPCRTNTIEEV-RCSTAHAFKVAAARA 895

TITLE OF INVENTION: The Avian Extracellular Calcium-Sensing  
 TITLE OF INVENTION: Receptor  
 NUMBER OF SEQUENCES: 2  
 CORRESPONDENCE ADDRESS:  
 ADDRESSSEE: Vinson & Elkins L.L.P.  
 STREET: 1455 Pennsylvania Avenue, N.W.  
 CITY: Washington  
 STATE: D.C.  
 COUNTRY: U.S.  
 ZIP: 20004-1008

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent in Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/134,513  
 FILING DATE:  
 CLASSIFICATION:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Sanzo, Michael A.  
 REGISTRATION NUMBER: 36,912  
 REFERENCE/DOCKET NUMBER: BRI331/13003  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (202) 639-6604  
 TELEFAX: (202) 639-6585  
 INFORMATION FOR SEQ ID NO: 2:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 1059 amino acids  
 TYPE: amino-acid  
 STRANDEDNESS: not relevant  
 TOPOLOGY: not relevant  
 MOLECULE TYPE: protein  
 HYPOTHETICAL: NO  
 US-09-134-513-2

Query Match 36.4%; Score 722.5; DB 3; Length 1059;  
 Best Local Similarity 38.2%; Pred. No. 4.5e-58;  
 Matches 146; Conservative 70; Mismatches 139; Indels 27; Gaps 5;  
 1 LPHSVCTDVCPGPGFVQREPICCFDSIPCADGHVSRKPGERCEQCGEDYWSNAQKS 60  
 536 VPFNSNCSDCLPCTRKGLIEGPTCCFECVCDPGEYSDETDASACDKCPEDYWSNENHT 595  
 61 ECVLKEVEYLAYDEALGFTLVLSVFGAVVLAATAVYVHRTPLVNASDWQLGFLIQV 120  
 596 SCIPKQIEFLSWTEPFGTALTLFAVLGFLIFTSFLVLGFTKFRNTPIVKATNRELSELLLFF 655  
 121 SLLIMLSSMFLIDKPHNWSMAGQVTLLAQLGFSLCLSCLLGKTSLSFLAYR1SKSKTQLT 180  
 656 SLLCCFSSSLFFIGEPQNWTCTRLROPAFGISFVLCLSCILVKTRVLLVFE-AKIPTS-- 712  
 181 SMHPLYRK-----IVLISVLAEGICCTAYLILEPPMVYKNMESQNTKIIIGCNEIS 232  
 713 ----LHRKWWGLNLQFLVFLCTFVQIVIVCIVWLYTAPPSSYRNHEDEIIFITCHEGS 768  
 233 IEFYNSMFGIDAFLALICFLTTFVARQLPDNYYEGKCITFGMLVFFIIMSEPVYLSTK 292  
 769 LMALGFLIGYTCLLAAICFFFAPKSRLPKENFNEAKFTTSMLIFFIVWISIPIAYASTY 828  
 293 GKFKMAYEVIFAILASSHGLLGGCFAPKCLLILLRPERNTSEIVCGRVSTTDNCIQLTSAF 352  
 829 GKFKVSAVEVIAILAAASFGLLACTFFNKVYIILFKPSRNTIEEV--RCSTAHHAFKVAARA 886  
 353 V-----SSELNNTVST 364  
 887 TLRRSNVSRKRSNLSGGSTGST 908

RESULT 8  
 US-08-485-588-8  
 Sequence 8, Application US/08485588  
 Patent No. 5688938

GENERAL INFORMATION:  
 APPLICANT: Edward M. Brown  
 APPLICANT: Steven C. Hebert  
 APPLICANT: Forrest H. Fuller  
 APPLICANT: James E. Garrett, Jr.  
 TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE  
 TITLE OF INVENTION: MOLECULES  
 NUMBER OF SEQUENCES: 20  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Lyon & Lyon  
 STREET: First Interstate World Center  
 STREET: Suite 4700  
 STREET: 633 West Fifth Street  
 CITY: Los Angeles  
 STATE: California  
 COUNTRY: USA  
 ZIP: 90071  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: FASTSEQ  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/485,588  
 FILING DATE: 7 June, 1995  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA: including application  
 PRIOR APPLICATION DATA: described below: 9  
 APPLICATION NUMBER: 08/353,784  
 FILING DATE: 9 December, 1994  
 APPLICATION NUMBER: PCT/US/94/12117  
 FILING DATE: 21 October, 1994  
 APPLICATION NUMBER: U.S. 08/292,827  
 FILING DATE: 23 August, 1994  
 APPLICATION NUMBER: U.S. 08/141,248  
 FILING DATE: 22 October, 1993  
 APPLICATION NUMBER: U.S. 08/009,389  
 FILING DATE: 23 February, 1993  
 APPLICATION NUMBER: U.S. 08/017,127  
 FILING DATE: 12 February, 1993  
 APPLICATION NUMBER: U.S. 07/934,161  
 FILING DATE: 21 August, 1992  
 APPLICATION NUMBER: U.S. 07/834,044  
 FILING DATE: 11 February, 1992  
 APPLICATION NUMBER: U.S. 07/749,451  
 FILING DATE: 23 August, 1991  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Heber, Sheldon O.  
 REGISTRATION NUMBER: 38,179  
 REFERENCE/DOCKET NUMBER: 213/005  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (213) 489-1600  
 TELEFAX: (213) 955-0440  
 TELEX: 67-3510  
 INFORMATION FOR SEQ ID NO: 8:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 1079 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-485-588-8

Query Match 36.0%; Score 714.5; DB 1; Length 1079;  
 Best Local Similarity 38.3%; Pred. No. 2.5e-57;  
 Matches 146; Conservative 71; Mismatches 137; Indels 27; Gaps 6;  
 1 LPHSVCTDVCPGPGFVQREPICCFDSIPCADGHVSRKPGERCEQCGEDYWSNAQKS 60  
 537 VPFNSNCSDCLPCTRKGLIEGPTCCFECVCDPGBYSGETDASACDKCPDDFWSNENHT 596  
 61 ECVLKEVEYLAYDEALGFTLVLSVFGAFVVLAVTAVYVHRTPLVNASDWQLGFLIQV 120

Qy  
 Db  
 Qy

597 SCIAKEIEPLAWTEPPGIAITLTLAVLGIPLTAFLGVPIKFRNTPIVKATNRELSSYLLPF 656

121 SLLIMLSSMLFDIKPHNWSAGQVTLALGFSLCLSCLLGKTSSLFLAYRISKSKTQLT 180

657 SLLCCPSSSLFIGEPQDWTCRLRQAFGIFVLCISCLVKTNRVLLVF--EAKIP-T 712

181 SMHPLYRK-----IIVLISVLAEGIICTAVYLLEPPMVYKMEQNTKJILGCNEIS 232

713 SFH---RKWGLNLQFLVPLCTFMQILICLWLYTAPPSSYRNHELEDEIIFTCHEGS 769

233 IEFYSMFGIDAFALLCPLTTFVARQLPDNTYEGKCITFGMLVFFIIWMSFVPUVLSTK 292

770 LMAIGSLIGYTCLAAACFFFAFKSRKLPENFNEAKFIFTSMUFLFIVWISFIPAYASTY 829

293 GKPKMAYEIAAILASSHGLLGCIPAKPKCLILLRPERNTSEIVCGRVSTTDNCIQLTSAP 352

830 GKPKVSAVEIAILAAASFGLLACIFFNKVYIILFKPSRNTIEEV--RSSTAHAFAFKVAARA 887

353 V-----SEELNNTTVS 363

888 TLRRPNISRKRSSSLGGSTGS 908

US-08-484-565-8

Sequence 8, Application US/08484565

Patent No. 5763569

GENERAL INFORMATION:

APPLICANT: Edward M. Brown

APPLICANT: Steven C. Hebert

APPLICANT: James E. Garrett, Jr.

TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE

NUMBER OF SEQUENCES: 20

CORRESPONDENCE ADDRESS:

ADDRESSEE: Lyon & Lyon

STREET: First Interstate World Center

STREET: Suite 4700

STREET: 633 West Fifth Street

CITY: Los Angeles

STATE: California

COUNTRY: USA

ZIP: 90071

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5" Diskette, 1.44 MB storage

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: FASTSEQ

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/484,565

FILING DATE: 7 June, 1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

PRIOR APPLICATION DATA: including application

PRIOR APPLICATION DATA: described below: 9

APPLICATION NUMBER: 08/353,784

FILING DATE: 9 December, 1994

APPLICATION NUMBER: PCT/US/94/12117

FILING DATE: 21 October, 1994

APPLICATION NUMBER: U.S. 08/292,827

FILING DATE: 23 August, 1994

APPLICATION NUMBER: U.S. 08/141,248

FILING DATE: 22 October, 1993

APPLICATION NUMBER: U.S. 08/009,389

FILING DATE: 23 February, 1993

APPLICATION NUMBER: U.S. 08/017,127

FILING DATE: 12 February, 1993

APPLICATION NUMBER: U.S. 07/934,161

FILING DATE: 21 August, 1992

APPLICATION NUMBER: U.S. 07/834,044

FILING DATE: 11 February, 1992

APPLICATION NUMBER: U.S. 07/749,451

FILING DATE: 23 August, 1991

ATTORNEY/AGENT INFORMATION:

NAME: Heber, Sheldon O.

REGISTRATION NUMBER: 38,179

REFERENCE/DOCKET NUMBER: 213/006

TELECOMMUNICATION INFORMATION:

TELEPHONE: (213) 489-1600

TELEFAX: (213) 955-0440

TELEX: 67-3510

INFORMATION FOR SEQ ID NO: 8:

SEQUENCDB CHARACTERISTICS:

LENGTH: 1079 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-484-565-8

Query Match 36.0%; Score 714.5; DB 1; Length 1079;

Best Local Similarity 38.3%; Pred. No. 2.5e-57;

Matches 146; Conservative 71; Mismatches 137; Indels 27; Gaps 6;

QY 1 LPHSVCTDVCPPGTGRGFVQREPICCFDSIPCADGHVSRKPGERECEQCGEDYWSNAOKS 60

Db 537 VPFNSNCSRDCQAGTRKIGEPTCCFECVBCPDDFWSNTENHT 596

QY 61 ECVLKVEVYLAYDEALGPTLVILSVFGAFVVLAVTAVVYIHRHTPLVNASDWQLGFLIQV 120

Db 597 SCIAKBEFLAWTEPFGIALTFPLAVGIFLTAFLGVPIKFRNTPIVKATNRELSSYLLPF 656

QY 121 SLLIMLSSMLFDIKPHNWSCMAGQVTLALGFLCLSLGKTSSLFLAYRISKSKTQLT 180

Db 657 SLLCCFSSSLPFIGEPQDWTCRLRQAFGISFVLCISCLVKTNRVLLVF--EAKIP-T 712

QY 181 SMHPLYRK-----IIVLISVLAEGIICTAVYLLEPPMVYKMEQNTKJILGCNEIS 232

Db 713 SFH--RKWGLNLQFLVPLCTFMQILICLWLYTAPPSSYRNHELEDEIIPITCHEGS 769

QY 233 TEFYSMFGIDAFALLCFLTTFVARQLPDNYYEGKCITFGMLVFFIIMMSFVPUVLSTK 292

Db 770 LMALGSLIGYTCLAAICFFPAFKSRKLPENFNEAKFITSMLIFFFFPKPSRNTIBEV--RSSTAHAFAFKVAARA 887

QY 293 GKFKMAYEIAILASHGGLGCFAPKCLILLRPERNTSEIVCGRVSTTDNCIQLTSAP 352

Db 830 GKFKVSAVEVIAILAAASFGLLACIFFNKVYIILPKPSRNTIBEV--RSSTAHAFAFKVAARA 887

QY 353 V-----SSELNNNTVS 363

Db 888 TLRRPNISRKRSSSLGGSTGS 908

RESULT 10

US-08-480-751-8

Sequence 8, Application US/08480751

Patent No. 5858684

GENERAL INFORMATION:

APPLICANT: Edward F. Nemeth

APPLICANT: Edward M. Brown

APPLICANT: Steven C. Hebert

APPLICANT: Forrest H. Fuller

APPLICANT: James E. Garrett, Jr.

TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE

TITLE OF INVENTION: MOLECULES

NUMBER OF SEQUENCES: 20

CORRESPONDENCE ADDRESS:

ADDRESSEE: Lyon & Lyon

STREET: First Interstate World Center

STREET: Suite 4700

STREET: 633 West Fifth Street

CITY: Los Angeles

STATE: California

COUNTRY: USA

ZIP: 90071

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5" Diskette, 1.44 MB storage

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: FASTSEQ

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/484,565

FILING DATE: 7 June, 1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

PRIOR APPLICATION DATA: including application

PRIOR APPLICATION DATA: described below: 9

APPLICATION NUMBER: 08/353,784

FILING DATE: 9 December, 1994

APPLICATION NUMBER: PCT/US/94/12117

FILING DATE: 21 October, 1994

APPLICATION NUMBER: U.S. 08/292,827

FILING DATE: 23 August, 1994

APPLICATION NUMBER: U.S. 08/141,248

FILING DATE: 22 October, 1993

APPLICATION NUMBER: U.S. 08/009,389

FILING DATE: 23 February, 1993

APPLICATION NUMBER: U.S. 08/017,127

FILING DATE: 12 February, 1993

APPLICATION NUMBER: U.S. 07/934,161

FILING DATE: 21 August, 1992

APPLICATION NUMBER: U.S. 07/834,044

FILING DATE: 11 February, 1992

APPLICATION NUMBER: U.S. 07/749,451

FILING DATE: 23 August, 1991

COMPUTER READABLE FORM:

MOLECULE TYPE: 3.5" Diskette, 1.44 Mb storage

SEQUENCDB CHARACTERISTICS:

LENGTH: 1079 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-480-751-8

Sequence 8, Application US/08480751

Patent No. 5858684

GENERAL INFORMATION:

APPLICANT: Edward F. Nemeth

APPLICANT: Edward M. Brown

APPLICANT: Steven C. Hebert

APPLICANT: Forrest H. Fuller

APPLICANT: James E. Garrett, Jr.

TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE

TITLE OF INVENTION: MOLECULES

NUMBER OF SEQUENCES: 20

CORRESPONDENCE ADDRESS:

ADDRESSEE: Lyon & Lyon

STREET: First Interstate World Center

Suite 4700

STREET: 633 West Fifth Street

CITY: Los Angeles

STATE: California

COUNTRY: USA

ZIP: 90071

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5" Diskette, 1.44 MB storage

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: FASTSEQ

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/484,565

FILING DATE: 7 June, 1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

PRIOR APPLICATION DATA: including application

PRIOR APPLICATION DATA: described below: 9

APPLICATION NUMBER: 08/353,784

FILING DATE: 9 December, 1994

APPLICATION NUMBER: PCT/US/94/12117

FILING DATE: 21 October, 1994

APPLICATION NUMBER: U.S. 08/292,827

FILING DATE: 23 August, 1994

APPLICATION NUMBER: U.S. 08/141,248

FILING DATE: 22 October, 1993

APPLICATION NUMBER: U.S. 08/009,389

FILING DATE: 23 February, 1993

APPLICATION NUMBER: U.S. 08/017,127

FILING DATE: 12 February, 1993

APPLICATION NUMBER: U.S. 07/934,161

FILING DATE: 21 August, 1992

APPLICATION NUMBER: U.S. 07/834,044

FILING DATE: 11 February, 1992

APPLICATION NUMBER: U.S. 07/749,451

FILING DATE: 23 August, 1991

COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: FASTSEQ

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/480,751  
 FILING DATE: 7 June, 1995  
 CLASSIFICATION: 435

PRIOR APPLICATION DATA: including application described below:  
 APPLICATION NUMBER: 08/353,784  
 FILING DATE: 9 December, 1994  
 APPLICATION NUMBER: PCT/US/94/12117  
 FILING DATE: 21 October, 1994  
 APPLICATION NUMBER: U.S. 08/292,827  
 FILING DATE: 23 August, 1994  
 APPLICATION NUMBER: U.S. 08/141,248  
 FILING DATE: 22 October, 1993  
 APPLICATION NUMBER: U.S. 08/009,389  
 FILING DATE: 23 February, 1993  
 APPLICATION NUMBER: U.S. 08/017,127  
 FILING DATE: 12 February, 1993  
 APPLICATION NUMBER: U.S. 07/934,161  
 FILING DATE: 21 August, 1992  
 APPLICATION NUMBER: U.S. 07/834,044  
 FILING DATE: 11 February, 1992  
 APPLICATION NUMBER: U.S. 07/749,451  
 FILING DATE: 23 August, 1991  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Heber, Sheldon O.  
 REGISTRATION NUMBER: 38,179  
 REFERENCE/DOCKET NUMBER: 213/004  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (213) 489-1600  
 TELEFAX: (213) 955-0440  
 TELEX: 67-3510

INFORMATION FOR SEQ ID NO: 8:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 1079 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-480-751-8

Query Match 36.0% Score 714.5; DB 2; Length 1079;  
 Best Local Similarity 38.3%; Pred. No. 2.5e-57;  
 Matches 146; Conservative 71; Mismatches 137; Indels 27; Gaps 6;

Qy 1 LPHSVCTDVCPPGTRGFVQREPICFDSDIPCADGHVSRKPGERECEQCGEDYWSNAQKS 60  
 Db 537 VPFNSNCSDQAGTRKGIIEGEPTCCFECVCPDGYSGETDASACDKCPDDFWSNENHT 596

Qy 61 ECVLKEYEVLAYDEALGFTLVVLSVFGAQQVTLAVTAVYVHRTPLVNADWQLGFLIQV 120  
 Db 597 SCLAKEIIFLAWTEPFGIALTIFAVLGLIFLTAFVLGIFKFRNTPIVKATNRRELSSYLLF 656

Qy 121 SLLIMLSSMLFDKPHNWSMCAGQVTLALGFSLCLSGKTSLSFLAYRISKSKTQLT 180  
 Db 657 SLLCCFSSSLFFIGEPODWTCLRQPAFGISFVLCLSCILVKTRNVLVF--EAKIP-T 712

Qy 181 SMHPLYRK-----IVLISVLAEGICITAYLILEPPMVYKNNMESQNTKILGCNEIS 232  
 Db 713 SFH--RKWVGLNLQFLVLFCLTMOQILICITWLYTAPPSSYRNHELEDEIIFTCHEGS 769

Qy 233 IEFLYSMFGIDAFLALLCFLTTFYARQLPDNYEGKCITFGMLVFFIIMSFVYVYLSTK 292  
 Db 770 LMALGSLIIGYTCLLAACFFAFKSRKLPENFNEAKFITSMLIFFWISFIPAYASTV 829

Qy 293 GKFKMVAIBIFAILASSHGLLGCIIFAPKCLLILLRPERNTSEIVCGRVSTTDNCIQLTSAF 352  
 Db 830 GKFKVSAVEVIAILAAASFGLLACIEFNKVYIILFKPSRNTIEV-RSSTAHAFKVAARA 887

Qy 353 V-----SSELNNNTVS 363

RESULT 11  
 US-08-943-986-8  
 ; Sequence 8, Application US/08943986  
 ; Patent No. 5962314

; GENERAL INFORMATION:  
 ; APPLICANT: Edward M. Brown  
 ; APPLICANT: Steven C. Hebert  
 ; APPLICANT: James E. Garrett, Jr.  
 ; TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE  
 ; TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE  
 ; NUMBER OF SEQUENCES: 20  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Lyon & Lyon  
 ; STREET: First Interstate World Center  
 ; STREET: Suite 4700  
 ; CITY: 633 West Fifth Street  
 ; STATE: Los Angeles  
 ; STATE: California  
 ; COUNTRY: USA  
 ; ZIP: 90071

; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: FASTSEQ

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/943,986  
 FILING DATE: 03-OCT-1997  
 CLASSIFICATION: 530  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/08/943,986  
 FILING DATE: 03-OCT-1997  
 CLASSIFICATION: 530  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/484,565  
 FILING DATE: 7-June-1995  
 APPLICATION NUMBER: 08/353,784  
 FILING DATE: 9 December, 1994  
 APPLICATION NUMBER: PCT/US/94/12117  
 FILING DATE: 21 October, 1994  
 APPLICATION NUMBER: U.S. 08/292,827  
 FILING DATE: 23 August, 1994  
 APPLICATION NUMBER: U.S. 08/141,248  
 FILING DATE: 22 October, 1993  
 APPLICATION NUMBER: U.S. 08/009,389  
 FILING DATE: 23 February, 1993  
 APPLICATION NUMBER: U.S. 08/017,127  
 FILING DATE: 12 February, 1993  
 APPLICATION NUMBER: U.S. 07/934,161  
 FILING DATE: 21 August, 1992  
 APPLICATION NUMBER: U.S. 07/834,044  
 FILING DATE: 11 February, 1992  
 APPLICATION NUMBER: U.S. 07/749,451  
 FILING DATE: 23 August, 1991  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Heber, Sheldon O.  
 REGISTRATION NUMBER: 38,179  
 REFERENCE/DOCKET NUMBER: 213/004  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (213) 489-1600  
 TELEFAX: (213) 955-0440  
 TELEX: 67-3510  
 MOLECULE TYPE: protein

US-08-943-986-8

Qy	1	LPHSVCTDVCPGPGTGRGFVQREPICCFDSI	P	CADGHVSRKPGERECEQCGEDYWSNAQKS	60
Qy	537	VPESNCSRDCQAGTRKGII	E	GPTCCFECVECPDGEYSGETDASACDKCPDDFWSNENTT	596
Qy	61	BCVLEKEVEYLAYDEALGFTLVILSVFGAFVVLAVTAVYYVTHRHTPLVYNASDWQLGFLIQV			120
Qy	597	SCIKEIEFLAWTEPFGIALTLFAVILGIFLTAFVLFGVFIKFRTPIVKATNREILSYLLLP			656
Qy	121	SLLIMLSSMLFIDKPHNWSCMAGQVTLLALGFSLCLSCLLGKTSSSLFLAYRISKSKTQLT			180
Qy	657	SLLCCFSSSLFPIGEPODWTCRLRQPAFGISFVLCLISCILVKTNRVLLVF---EAKIP-T			712
Qy	181	SMHPLIYRK-----IIVLISVLAEEIGICTAYLILEPPMVYKOMESQNTKILLGCNEIS			232
Qy	713	SFH---RKWGLNLQFLVFLCQILICIWLYTAPPSSYRNHELEDEIIIPITCHEGS			769
Qy	233	IIEFLYSMFGIDAFLALLCFLTTFVARQLPDNYYEGKCITFGMLVFFLIWMSFVPVYLLSTK			292
Qy	770	LMALGSLIGYTCLAAICFPFAFKSRKLPENFNEAKPITPSMLIFPIWISFIPAYASTY			829
Qy	293	GKFKMAVEIFAILASSHGLLGCIFAPKCLIIILLPERNTSEIVCGRVSTTDNCIQLTSAP			352
Qy	830	GKFVSAVEVIAILAASEGLLACIFFNKVYIILFKPSRNTIEV--RSSTAHHAFKVAAARA			887
Qy	353	V-----SSEIINNTTVS			363
Qy	888	TI-BBPNISRKBSSSI-EGGSTGSS			908

RESULT 12  
US-08-353-784-8  
; Sequence 8, Application US/08353784  
; Patent No. 6011068  
; GENERAL INFORMATION:  
; APPLICANT: Edward F. Nemeth, Edward M.  
; APPLICANT: Brown, Steven C. Hebert,  
; APPLICANT: Bradford C. Van Wagenen, Manuel  
; APPLICANT: F. Balandrin, Forrest H. Fuller,  
; APPLICANT: ERIC G. DelMar, and Scott T. Moe  
; TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE  
; TITLE OF INVENTION: MOLECULES  
; NUMBER OF SEQUENCES: 20  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: First Interstate World Center  
; STREET: Suite 4700  
; STREET: 633 West Fifth Street  
; CITY: Los Angeles  
; STATE: California  
; COUNTY: Los Angeles

Query	Match	Score	DB	Length
Query	Match	Score	DB	Length
Best Local Similarity	36.0%	Score 714.5;	DB 3;	Length 1079;
Pred. No.	38.3%	Pred. No. 2.5e-57;		
Matches 146;	Conservative	71;	Mismatches 137;	Indels 27;
			Gaps 6;	
Qy 1	LPHSVCTDVCPGPGRGFVQRBPICCFDSIPCADGHVSRKPGERECEQCGEDYWSNAQKS	60		
db 537	:      :      :      :      :      :      :      :      :      :			
Qy 61	ECVLIKKEVEYLAYDEALGFTLVLVILSVFGAFVVLAVTAVYYVIRHRTPLVNASDWQLGFLIQQV	120		
db 597	:      :      :      :      :      :      :      :      :			
Qy 121	SLIIMLSSMFLIDKPHNNSCMAGQVTLLALGPSLCLSLGKTSSSLPLAYRISKSKTQLT	180		
db 657	:      :      :      :      :      :      :      :      :			
Qy 181	SMHPLYRK-----IIVLISVLABIGICTAYLILEPPMVYKQTMESQNTKILLGCNBIS	232		
db 713	:      :      :      :      :      :      :      :			
Qy 233	IEFLYSMFGIDAFLLCFLTTFVARQLPDNYYEGKCIITFGMLVVFPIIWMSSFVVPVYLSTK	292		
db 770	:      :      :        :        :        :        :			
Qy 293	GKFKAIVEBIAFAILASSHGLLGCIFAPKCLIIILRPERNTSEIVCGRVSTDNCIQLTSAF	352		
db 830	:      :        :        :        :        :        :			
Qy 353	V-----SSBELMNNTTVS	363		
db 999	:      :        :        :        :        :        :			

OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: FASTSEQ  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/353,784  
FILING DATE: 9 December, 1994  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
PRIOR APPLICATION DATA: including application  
PRIOR APPLICATION DATA: described below: 8  
APPLICATION NUMBER: PCT/US/94/12117  
FILING DATE: 21 October, 1994  
APPLICATION NUMBER: U.S. 08/292,827  
FILING DATE: 23 August, 1994  
APPLICATION NUMBER: U.S. 08/141,248  
FILING DATE: 22 October, 1993  
APPLICATION NUMBER: U.S. 08/009,389  
FILING DATE: 23 February, 1993  
APPLICATION NUMBER: U.S. 08/017,127

STREET: Suite 4700  
 STREET: 633 West Fifth Street  
 CITY: Los Angeles  
 STATE: California  
 COUNTRY: USA  
 ZIP: 90071  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: MS Word  
 SOFTWARE: FastSEQ for Windows Version 3.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/484,719B  
 FILING DATE: 7 June, 1995  
 CLASSIFICATION: 514  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/353,784  
 FILING DATE: 9 December, 1994  
 APPLICATION NUMBER: PCT/US/94/12117  
 FILING DATE: 21 October, 1994  
 APPLICATION NUMBER: U.S. 08/292,827  
 FILING DATE: 23 August, 1994  
 APPLICATION NUMBER: U.S. 08/141,248  
 FILING DATE: 22 October, 1993  
 APPLICATION NUMBER: U.S. 08/009,389  
 FILING DATE: 23 February, 1993  
 APPLICATION NUMBER: U.S. 08/017,127  
 FILING DATE: 12 February, 1993  
 APPLICATION NUMBER: U.S. 07/934,161  
 FILING DATE: 21 August, 1992  
 APPLICATION NUMBER: U.S. 07/834,044  
 FILING DATE: 11 February, 1992  
 FILING DATE: 23 August, 1991  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Douglas C. Murdock  
 REGISTRATION NUMBER: 37,549  
 REFERENCE/DOCKET NUMBER: 213/007  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (213) 489-1600  
 TELEFAX: (213) 955-0440  
 TELEX: 67-3510  
 INFORMATION FOR SEQ ID NO: 8:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 1079 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-484-719B-8

Query Match 36.0%; Score 714.5; DB 3; Length 1079;  
 Best Local Similarity 38.3%; Pred. No. 2.5e-57;  
 Matches 146; Conservative 71; Mismatches 137; Indels 27; Gaps 6;

Qy 1 LPHSVCTDVCPGPGTGRGVQREPICCFDSIPCADGHWSRKPGERCEQCGEDYWSNAQKS 60  
 Db 537 VPFSNCSDCOAGTRKGIIEGEPTCCFECVCPDGEYSGETDASACDKCPDDFWSNENHT 596

Qy 61 ECVLKEVVELAYDEALGFTLVLSVFGAVVLAFTAVTYYVLRHRTPLVNASDWQIGFLIQV 120  
 Db 597 SCIAKERIEFLAWTEPFGIAILTIFAVLGIFLTAFVLRQPAFGISFVLCLISILVKTNRELSYLLF 656

Qy 121 SLIIMLSSMLFIDKPHNWSMAGQVTLALGFSLCLSLCIGKTSLSFLAYRISKSKTQLT 180  
 Db 657 SLLCCFSSLFFIGEPOQDWTCRLRQPAFGISFVLCLISILVKTNRELSYLLF 712

Qy 181 SMHPLYRK-----IVLISVLAEGITAYLILEPMTYKMEQSONTKILLGCKNEIS 232  
 Db 713 SFH---RKWKGGLNQFLVFLCTEMQILICIIWLYTAPSSSYRNHEDEIIPITCHEGS 769

Qy 233 IEFLYSMGFGIDAFLALLCFLTTFVARQDNYEGKCLTEGMLVFFFIMMSEFVYLLSTK 292

Db 770 LMALGSLIGGYTCLLAAICFFAFKSRKLPEVNNEAKFITFMSLIFIFIWISFIPAYASTY 829  
 Qy 293 GKFKMAYEIPAILASSHGLGCIFAPKCLLILLRPERNTSEIVCGRVSTTDNCIQLTSAF 352  
 Db 830 GKFSAVEVTAIAASFGLLACIFFENKVYIILFKPSRNTEEV--RSSTAHAHKVAARA 887

Qy 353 V-----SSELNNTTVS 363  
 Db 888 TLRPNISRKRKRSQSSLGGSTGS 908

RESULT 14  
 US-08-484-159-8  
 / Sequence 8, Application US/08484159  
 / Patent No. 6313146  
 / GENERAL INFORMATION:  
 / APPLICANT: Bradford C. Van Wagenen  
 / APPLICANT: Manuel F. Balandrin  
 / APPLICANT: Eric G. Del Mar  
 / APPLICANT: Edward F. Nemeth  
 / TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE  
 / TITLE OF INVENTION: MOLECULES  
 / NUMBER OF SEQUENCES: 20  
 / CORRESPONDENCE ADDRESS:  
 / ADDRESSEE: Lyon & Lyon  
 / STREET: First Interstate World Center  
 / STREET: Suite 4700  
 / STREET: 633 West Fifth Street  
 / CITY: Los Angeles  
 / STATE: California  
 / COUNTRY: USA  
 / ZIP: 90071  
 / COMPUTER READABLE FORM:  
 / MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage  
 / COMPUTER: IBM PC compatible  
 / OPERATING SYSTEM: PC-DOS/MS-DOS  
 / SOFTWARE: FASTSEQ  
 / CURRENT APPLICATION DATA:  
 / APPLICATION NUMBER: US/08/484,159  
 / FILING DATE: 7 June, 1995  
 / CLASSIFICATION: 435  
 / PRIOR APPLICATION DATA:  
 / PRIOR APPLICATION DATA: including application  
 / PRIOR APPLICATION DATA: described below: 9  
 / APPLICATION NUMBER: 08/353,784  
 / FILING DATE: 9 December, 1994  
 / APPLICATION NUMBER: PCT/US/94/12117  
 / FILING DATE: 21 October, 1994  
 / APPLICATION NUMBER: U.S. 08/292,827  
 / FILING DATE: 23 August, 1994  
 / APPLICATION NUMBER: U.S. 08/141,248  
 / FILING DATE: 22 October, 1993  
 / APPLICATION NUMBER: U.S. 08/009,389  
 / FILING DATE: 12 February, 1993  
 / APPLICATION NUMBER: PCT/US/94/12117  
 / FILING DATE: 21 August, 1992  
 / APPLICATION NUMBER: U.S. 07/934,161  
 / FILING DATE: 11 February, 1992  
 / APPLICATION NUMBER: U.S. 07/834,044  
 / FILING DATE: 23 August, 1991  
 / ATTORNEY/AGENT INFORMATION:  
 / NAME: Heber, Sheldon O.  
 / REGISTRATION NUMBER: 38,179  
 / REFERENCE/DOCKET NUMBER: 214/101  
 / TELECOMMUNICATION INFORMATION:  
 / TELEPHONE: (213) 489-1600  
 / TELEFAX: (213) 955-0440  
 / TELEX: 67-3510  
 / INFORMATION FOR SEQ ID NO: 8:  
 / SEQUENCE CHARACTERISTICS:  
 / LENGTH: 1079 amino acids

LENGTH: 1079 amino acids

TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-484-159-8

Query Match 36.0%; Score 714.5; DB 3; Length 1079;  
Best Local Similarity 38.3%; Pred. No. 2.5e-57;  
Matches 146; Conservative 71; Mismatches 137; Indels 27; Gaps 6;

QY 1 LPHSVCTDVCPPGTRGFVQREPICCFDSIPCADGHVSRKPGRECEQCGEDYWSNAQKS 60  
DB 537 VPFNSNCSDQAGTRKGIIIEGPTCCFECVBCPDGEYSGSETDASACDKCPDDFWSNENHT 596

QY 61 ECVLKKEVEYLAYDEALGFTLVILSVFGAIVVLAIVTAVVVIHRTPLVNADWQLGFLIQV 120  
DB 597 SCIAKEIEFLAWTEPFGIAALTFLAVLGFILTAFLVGLVPIKFRNTPIVKAATNRELSSYLLP 656

QY 121 SLIMLSSMLFIDKPHNWSMCAGQVTLALGPSLCLSCLLGRTSSLFLAYRISKSKTQLT 180  
DB 657 SLLCCFSSSLFFIGEPPQDWTCRLRQPAFGISFVLCISCLVKTNRVLLVF--EAKIP-T 712

QY 181 SMHPLYRK-----IIVLISVLAEGIICITAYLILEPPMVYKNMESQNTKILLGCNEIS 232  
DB 713 SFH---RKWWGLNLQPLLVFLCTFMQILICIIWLYTAPPSSYRNHELEDEIIPITCSEG 769

QY 233 IEFLYSMFGIDAFALLCFLTTFVARQLPDNYYEKGKCITFGMLVFFFIWMSFVPPVYLSTK 292  
DB 770 LMALGSLIGYTCLAAICCPPFAFKSRKLPENPNEAKPITFSMLIIPPIWISFIPAYASTY 829

QY 293 GKFKMATEVIAILASSHGLLGCIFAPKCLLILLRPERNTSEIVCGRVSTTDNCIQLTSAP 352  
DB 830 GKFVSAVEVIAILASFGLLACIFFNKVYIILFKPSRNTIEEV--RSSTAHAHAFKVAARA 887

QY 353 V-----SSELNNNTTVS 363  
DB 888 TLRRPNISRKRSSSLGGSTGS 908

RESULT 15  
US-08-485-588-7  
Sequence 7, Application US/08485588  
Patent No. 5688938

GENERAL INFORMATION:  
APPLICANT: Edward M. Brown  
APPLICANT: Steven C. Herbert  
APPLICANT: Forrest H. Fuller  
APPLICANT: James E. Garrett, Jr.  
TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE  
TITLE OF INVENTION: MOLECULES  
NUMBER OF SEQUENCES: 20  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: First Interstate World Center  
STREET: Suite 4700  
STREET: 633 West Fifth Street  
CITY: Los Angeles  
STATE: California  
COUNTRY: USA  
ZIP: 90071

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: FASTSEQ

CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/485,588  
FILING DATE: 7 June, 1995  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
PRIOR APPLICATION DATA: including application  
described below:  
APPLICANT NUMBER: 08/353,784  
FILING DATE: 9 December, 1994

QY 353 V-----SSELNNNTTVS 364  
DB 888 TLRRSNVSRKRSSSLGGSTGS 909

Search completed: February 16, 2005, 16:43:05  
Job time : 20.1743 secs

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